

**ABSTRACT**

Apparatus for medical treatment or diagnosis in a body cavity of a mammalian subject includes an elongate probe, having an outer surface and comprising a distal portion, which is adapted for insertion into the body cavity. An electrode strip includes an elongate insulating substrate, which is wrapped around the distal portion of the probe so as to define a helix having distal and proximal ends and a length therebetween, the substrate being fixed to the outer surface of the probe over substantially all of the length of the helix. A plurality of electrodes are disposed along the length of the helix and fixed to the substrate. Electrical conductors are coupled to the electrodes and run along the substrate over the length of the helix so as to communicate with circuitry in a location proximal to the distal portion of the probe.